Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A method of training a device for linearizing a radiofrequency amplifier (31) which is included within a radiofrequency transmitter (30) of a first equipment (Figure 1) of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols, the method comprising the steps consisting in:

- a) generating a linearization training sequence (Figure 5) comprising a determined number N of symbols, where N is a determined integer;
- b) transmitting the linearization training sequence by means of the transmitter in at least certain of the bursts transmitted by the latter;
- c) comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train said linearization device, characterized in that wherein at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within said alphabet of symbols, said subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst a narrower spectrum than said alphabet of symbols as a whole.

Claim 2 (currently amended). The method as claimed in claim 1, wherein the linearization training sequence comprises a determined number N2 of other symbols transmitted last, at least certain of which belong to the alphabet of symbols excluding said subalphabet of symbols, or N2 is an integer less than N.

Claim 3 (currently amended). The method as elaimed in claim 2 of Claim 2, wherein a majority or the totality of said N2 other symbols transmitted last belong to the alphabet of symbols excluding said subalphabet of symbols.

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Claim 4 (currently amended). The method as elaimed in claim 2 or claim 3 of Claim 2,

wherein N1+N2=N.

Claim 5 (currently amended). The method as claimed in any one of the preceding claims of

<u>Claim 1</u>, according to which the number N is fixed.

Claim 6 (currently amended). The method as claimed in any one of the preceding claimsof

<u>Claim 1</u>, according to which the linearization training sequence occupies only a part of the

burst in which it is transmitted.

Claim 7 (currently amended). The method as claimed in claim 6 of Claim 6, wherein the

linearization training sequence occupies around 5% of the duration of the burst in which it is

transmitted.

Claim 8 (currently amended). The method as claimed in any one of the preceding claims of

<u>Claim 1</u>, wherein the linearization training sequence is transmitted at the start of the frame.

Claim 9 (currently amended). The method as claimed in any one of the preceding claims of

<u>Claim 1</u>, wherein the linearization training sequence is further transmitted during a change of

logical channel, a change of frequency and/or a change of power rating of the mobile

terminal first equipment.

Claim 10 (currently amended). The method as claimed in any one of the preceding claimsof

<u>Claim 1</u>, wherein the training sequence is included within or includes a sequence of symbols

that is designed moreover to allow the dynamic control of the gain of a variable-gain amplifier

of a radiofrequency receiver of a second item of equipment of the radiocommunication system

with which said first equipment communicates.

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Claim 11 (currently amended). A device for training a device (33) for linearizing a radiofrequency amplifier (31) of a radiofrequency transmitter (30) which is included within a first equipment (Figure 1) of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols, the device comprising:

- a) means (300, 10, 20) for generating a linearization training sequence (Figure 5) comprising a determined number N of symbols, where N is a determined integer;
- b) means (300, 30) for transmitting the linearization training sequence by means of the transmitter in at least certain of the bursts transmitted by the lattertransmitter;
- c) means (300, 34) for comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train said linearization device, eharacterized in that wherein at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within said alphabet of symbols, said subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst a narrower spectrum than said alphabet of symbols as a whole.

Claim 12 (currently amended). The device as claimed in claim 11 of Claim 11, wherein the linearization training sequence comprises a determined number N2 of other symbols transmitted last, at least certain of which belong to the alphabet of symbols excluding said subalphabet of symbols, or N2 is an integer less than N.

Claim 13 (currently amended). The device as claimed in claim 12 of Claim 12, wherein a majority or the totality of said N2 other symbols transmitted last belong to the alphabet of symbols excluding said subalphabet of symbols.

Claim 14 (currently amended). The device as claimed in claim 12 or claim 13 of Claim 12, wherein N1+N2=N.

Claim 15 (currently amended). The device as claimed in any one of claims 11 to 14of Claim 11, wherein the number N is fixed.

Claim 16 (currently amended). The device as claimed in any one of claims 11 to 15of Claim 11, wherein the linearization training sequence occupies only a part of the burst in which it is transmitted.

Claim 17 (currently amended). The device as claimed in claim 16 of Claim 16, wherein the linearization training sequence occupies around 5% of the duration of the burst in which it is transmitted.

Claim 18 (currently amended). The device as claimed in any one of claims 11 to 17of

Claim 11, wherein saidthe means for transmitting are adapted for transmitting the linearization training sequence at the start of the frame.

Claim 19 (currently amended). The device as claimed in any one of claims 11 to 18of

Claim 11, wherein saidthe means for transmitting are adapted for transmitting the linearization training sequence during a change of logical channel, a change of frequency and/or a change of power rating of the mobile terminal first equipment.

Claim 20 (currently amended). The device as claimed in any one of the preceding claimsof

Claim 11, wherein the training sequence is included within or includes a sequence of symbols
that is designed moreover to allow the dynamic control of the gain of a variable-gain amplifier
of a radiofrequency receiver of a second wherein equipment of the radiocommunication
system with which said first item of equipment communicates.

Claim 21 (currently amended). A mobile terminal of a radiocommunication system, comprising a radiofrequency transmitter (30) having a radiofrequency amplifier and a device (33) for linearizing the radiofrequency amplifier, characterized in that it further

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eomprises further comprising a device for training the linearization device as claimed in any one of claims 11 to 20 claim 11.

Claim 22 (currently amended). A base station of a radiocommunication system comprising a radiofrequency transmitter having a radiofrequency amplifier and a device for linearizing the radiofrequency amplifier, eharacterized in that it furthermore comprises further comprising a device for training the linearization device as claimed in any one of claims 11 to 20 claim 11.

Claim 23 (currently amended). A linearization training sequence (Figure 5) intended to be transmitted by means of a radiofrequency transmitter (30) of a mobile terminal (Figure 1) or of a base station of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, the linearization training sequence comprising a determined number N of symbols, where N is a determined integer, these symbols belonging to a determined alphabet of symbols, characterized in that wherein at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within said alphabet of symbols, said subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst in which the linearization training sequence is transmitted a narrower spectrum than said alphabet of symbols as a whole.

Claim 24 (currently amended). The sequence as claimed in claim 23 of Claim 23, further comprising a determined number N2 of other symbols transmitted last, at least certain of which belong to the alphabet of symbols excluding said subalphabet of symbols, or N2 is an integer less than N.

Claim 25 (currently amended). The sequence as claimed in claim 24 of Claim 24, wherein a majority or the totality of said N2 other symbols transmitted last belong to the alphabet of symbols excluding said subalphabet of symbols.

Claim 26 (currently amended). The sequence as claimed in claim 24 or claim 25 of Claim 24, wherein N1+N2=N.

Claim 27 (currently amended). The sequence as claimed in any one of claims 23 to 26of Claim 23, wherein the number N is fixed.

Claim 28 (currently amended). The sequence as claimed in any one of claims 23 to 27 of Claim 23, wherein the alphabet of symbols is the alphabet {-3,-1,+1,+3} of the symbols of the so-called F4FM modulation.

Claim 29 (currently amended). The sequence as claimed in claim 28 of Claim 28, wherein the N1 symbols sent first belong to the subalphabet {-1,+1}.

Claim 30 (currently amended). The sequence as claimed in claim 24-and one of claims 28 and 29, wherein the N2 symbols sent last belong in the majority or even as a totality to the subalphabet {-3,+3}.

Claim 31 (New). The sequence as claimed in claim-24 and one of claims 28 and 29, wherein the N2 symbols sent last belong in the majority or even as a totality to the subalphabet {-3,+3}.